

Estimated Reduction in NEI Flows and Management of Northside Flows

#	City and County Resolutions: Parameters to Reduce Flow in NEI	Immediate NEI Flow Change (gallons per day)	One Year Out NEI Change in Projected Flow (gallons per day)	Immediate Northside Flow Change (gallons per day)	One Year Out Northside Change in Projected Flow (gallons per day)	Relevant Comments
1	Beginning 4/20/07 divert a reasonable amount of flow (up to 250,000 gallons) per day of Porters Neck area sewer flows from the NEI to Northside. Divert additional flow after the SOC and/or plant capacity increases are in place.	APPROXIMATELY 50000	APPROXIMATELY 250,000	APPROXIMATELY 50000	APPROXIMATELY 250000	Diversion of some flow underway. (QUANTITY TO BE CONTROLLED BY PLANT ORC)
2	Enter into contractual negotiations with the State of North Carolina immediately, committing to the NEI Improvements and request compliance flexibility until they are completed.	0	0	0	0	
3	Give engineering consultants notice to proceed with initiative to increase Northside WWTP capacity earlier than scheduled.	0	0	0	0	
4	City and County to immediately initiate a sewer insert program for all manholes in the NEI Area and the basin served by the Northside WWTP to reduce rainwater inflow. Then strategically and appropriately expand this program system-wide.	0	UNKNOWN	0	UNKNOWN	
5	City and County to fund system investigation and repair program as identified by CDM Study in the NEI Area and expand program system-wide to reduce storm water and groundwater flows into the sewer system.	0	APPROXIMATELY 150000	0	UNKNOWN	Includes 150k gpd NHC Rehab of Bradley Creek Outfall in NEI.
6	Building Permits for residential construction in the NEI Area would continue to be issued.	0	APPROXIMATELY 172,800	0	100,800	Added Flow. NEI change estimates 60 residential building permits per month with 240 gpd actual flow each times 12 months. Considers impact from main line sewer extension restrictions in NEI and Northside area. Northside change estimates 35 residential building permits per month.
7	Commercial Building Permits in the NEI Area that add new flows will be limited to 80% of the average increase in commercial flows over the past two years, until plant capacity is increased or the NEI improvements are completed.	0	APPROXIMATELY 128000 Permitted 85000 Actual	0	0	NEI Impact fees paid on 159,395 gpd commercial flow for 12 months. Actual flows estimated to be 2/3 of permitted, say 106,262 gpd. A 20% reduction is 21,252 gpd.
8	City and County to stop authorizing developer prepared applications for state permitted sewer system extensions in the Northside WWTP Area until plant capacity is increased. This would cover adding main lines (new sewer extensions to the system.	0	0	0	140,000-350,000	7 mgd X (slow 2%) - 7mgd X (fast 5%) growth rates. 6.9 mgd = ADF annual basis for 2006.
9	Water use conservation program continues and expanded for City customers and begins for County customers to reduce sewer flows.	0	longterm impact expected	0	longterm impact expected	Assumes voluntary conservation measures by customers.
10	Continue with the capacity planning, allocation, and management process for the system.	0	0	0	0	